

Information Related to the Macro-Economic Model

Macro-Economic Model Team

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In today's complex global environment, high risks are inevitable. Therefore predicting macro events and their impact; with insights into emerging and future economic trends; are a must.

GSSCPD is looking for a state of the art Macroeconomic Model for Monitoring; Policy-driven analysis; and insights on key indicators. This tool must be able to create alternative scenarios to assess and evaluate the policies impact within local, regional, and global environment.

The Model Structure should help in tracking, analysing, and reacting to the latest macro events and future trends. The Model should also facilitate the ability to provide briefings on emerging issues, insights, and outlook reports.

GSSCPD Expects the Macroeconomic Model to be able to generate at least the following data:

Main Macroeconomic Indicators (constant Price)	– Growth rate
Main Macroeconomic Indicators (constant Price)	– Values
Policy Goal Indicators	- Growth rate (%)
Policy Goal Indicators	- Values in Mils. KD

GDP by Economic Activities/Sectors:

Value Added (constant Price)	- Growth rate (%)
Value Added (constant Price)	- Values in Mils. KD
Structure of Value Added (constant Price)	- % of total GDP

Value Added (current Price)	- Growth rate (%)
Value Added (current Price)	- Values in Mils. KD
Structure of Value Added (current Price)	- % of total GDP

GDP by Expenditures:

Expenditure on GDP (constant price)	- Growth rate (%)
Expenditure on GDP (constant price)	- Values in Mils. KD
Structure of expenditure on GDP (constant price)	- % of total GDP

Expenditure on GDP (current price)	- Growth rate (%)
Expenditure on GDP (current price)	- Values in Mils. KD
Structure of expenditure on GDP (current price)	- % of total GDP

Investment by Economic Activities/Sectors:

Investment (constant Price)	- Growth rate (%)
Investment (constant Price)	- Values in Mils. KD
Structure of Investment (constant Price)	- % of total Investment

Investment (current Price)	- Growth rate (%)
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Investment (current Price)	- Values in Mils. KD
Structure of Investment (current Price)	- % of total Investment
Government Budget itemized	- Growth rate (%)
Government Budget itemized	- Values in Mils. KD
Structure of government Budget	- % of total GDP
Public Debt	- Growth rate (%)
Public Debt	- Values in Mils. KD
Public Debt	- % of total GDP
Current account	- Growth rate (%)
Current account	- Values in Mils. KD
Structure of current account	- % of total GDP
Financial Sector (Banking, Interest rates, Stock market)	
Employment by Economic Activities/Sectors:	
Employment	- Growth rate (%)
Employment	- Units in Thousands
Structure of Employment	- % of total Employment
Labor Productivity	- Growth rate (%)
Labor Productivity	- Values in Mils. KD
For the labour market, all previous indicators should be disaggregated based on :	
Nationality (citizens / non-citizens)	
Gender	
Education level	

Following are some example tables that should be generated from the Model:

TABLE-1 MACROECONOMIC INDICATORS (Constant/Current Prices): Growth Rate(%)/ Values

	20xx	20xx	20xx	20xx	20xx	20xx	Plan Average
Total consumption							
Private consumption							
Government consumption							
Gross fixed capital formation							
Private							
Government							
Oil.							
Exports							
Crude oil and natural gas							
Petroleum refining							
Petrochemicals							
Tourism							
Other exports							
Imports							
Gross domestic product Aggregates:							
Private sector							
Government sector							
Oil sector							
Employment							
Private							
Government							
Oil and Gas							
Kuwaiti							
Non-Kuwaiti							
Consumption Price index							
GDP Deflator							
Imports Price Index							
Exports Price Index							
Export of Oil Price Index							

TABLE-2 VALUE ADDED (Constant/Current Prices): Growth Rate(%)/Values

	20xx	20xx	20xx	20xx	20xx	20xx	Plan Average
PRODUCTION SECTOR							
-Agriculture							
-Mining							
-Pet. Refining							
-Petrochemicals							
-Manufacturing							
-Elec. And Water							
-Construction							
SERVICES SECTOR							
-Trade							
-Transport							
-Real Estate							
-Finance							
-Community Services							
Imputed Banking Charges							
Oil And Gas							
GOVERNMENT							
PRIVATE SECTOR							
Import Duties							
TOTAL GDP							

TABLE-3 INVESTMENT (Constant/Current Prices): Growth Rate(%)/values

	20xx	20xx	20xx	20xx	20xx	20xx	Plan Average
PRODUCTION SECTOR							
-Agriculture							
-Mining							
-Pet. Refining							
-Petrochemicals							
-Manufacturing							
-Elec. And Water							
-Construction							
SERVICES SECTOR							
-Trade							
-Transport							
-Real Estate							
-Finance							
-Community Services							
Private Housing							
Private Sector							
Oil and Gas							
Government Sector							
Total Investment							

TABLE-4 EMPLOYMENTS: Growth Rate(%)/Values

	20xx	20xx	20xx	20xx	20xx	20xx	Plan Average
PRODUCTION SECTOR							
-Agriculture							
-Mining							
-Pet. Refining							
-Petrochemicals							
-Manufacturing							
-Elec. And Water							
-Construction							
SERVICES SECTOR							
-Trade							
-Transport							
-Real Estate							
-Finance							
-Community Services							
Oil And Gas							
GOVERNMENT							
Kuwaiti							
Non-Kuwaiti							
Private Sector							
Kuwaiti							
Non-Kuwaiti							
TOTAL EMPLOYMENT							
Kuwaiti							
Non-Kuwaiti							

TABLE-5 Expenditure on GDP (Constant/Current Prices): Growth Rate(%)/Values

	20xx	20xx	20xx	20xx	20xx	20xx	Plan Average
Total Consumption							
-Private Consumption							
-Government Consumption							
Total Investment							
-Private							
-Government							
-Oil and Gas							
-Change in Stocks							
Final Domestic Demand							
Trade Balance							
Exports							
- Oil and Gas							
-Petroleum Refining							
- Petrochemicals							
- Tourism							
- Other Exports							
Imports							
Total GDP							

TABLE-6 Government Budget: Growth Rate(%)/Values

	20xx	20xx	20xx	20xx	20xx	20xx	Plan Average
Total Government Revenues							
-Oil Revenues							
-Non-Oil Revenues							
Total Government Expenditures							
-Gov. Exp. Chapter-1							
-Gov. Exp. Chapter-2							
-Gov. Exp. Chapter-3							
-Gov. Exp. Chapter-4							
Government Budget Surplus(Deficit)							
Total Government Debt							
Government Debt Services							

TABLE-7 Current Account: Growth Rate(%)/Values

	20xx	20xx	20xx	20xx	20xx	20xx	Plan Average
Total Exports							
-Oil and Gas							
-Petroleum Refining							
-Petrochemicals							
-Other Exports							
-Non-resident Consumption							
Total Imports							
Trade Balance							
Net Private Transfers							
Current Account Balance							
Net Foreign Assets							

TABLE-8 Some Policy Indicators

	20xx	20xx	20xx	20xx	20xx	20xx	Plan Average
Current Account(% of GDP)							
Trade Account(% of GDP)							
Gov. Budget surplus/deficit(% of GDP)							
Priv. Consumption(% of GDP)							
Priv. Production(% of GDP)							
Priv. Investment(% of GDP)							
Imports (% of Total expenditures)							
Non-OIL Revenues (% Total Rev.)							
Kuwaitization(% of Kuwaiti)							
Private Emp.(% of total)							
Kuwaiti Unemp. Rate							
Non-Oil Exports(%of total)							

For Policy Altered Scenarios :

TABLE-1 MACROECONOMIC INDICATORS (Constant/Current Prices)
Growth Rate(%)/Values

	Reference Scenario Plan Average	Policy Altered Scenario Plan Average	Difference
Total consumption			
Private consumption			
Government consumption			
Gross fixed capital formation			
Private			
Government			
Oil.			
Exports			
Crude oil and natural gas			
Petroleum refining			
Petrochemicals			
Tourism()			
Other exports			
Imports			
Gross domestic product			
Private sector			
Government sector			
Oil sector			
Employment			
Private			
Government			
Oil and Gas			
Kuwaiti			
Non-Kuwaiti			
Consumption Price index			
GDP Deflator			
Imports Price Index			
Exports Price Index			
Export of Oil Price Index			

TABLE-2 VALUE ADDED (Constant/Current Prices)
Growth Rate(%)/Values

	Reference Scenario Plan Average	Policy Altered Scenario Plan Average	Difference
PRODUCTION SECTOR			
-Agriculture			
-Mining			
-Pet. Refining			
-Petrochemicals			
-Manufacturing			
-Elec. And Water			
-Construction			
SERVICES SECTOR			
-Trade			
-Transport			
-Real Estate			
-Finance			
-Community Services			
Imputed Banking Charges			
Oil And Gas			
Government			
Private Sector			
Import Duties			
TOTAL GDP			

TABLE-3 INVESTMENT(Constant/Current Prices)
Growth Rate(%)/Values

	Reference Scenario Plan Average	Policy Altered Scenario Plan Average	Difference
PRODUCTION SECTOR			
-Agriculture			
-Mining			
-Pet. Refining			
-Petrochemicals			
-Manufacturing			
-Elec. And Water			
-Construction			
SERVICES SECTOR			
-Trade			
-Transport			
-Real Estate			
-Finance			
-Community Services			
Private Housing			
Private Sector			
Oil and Gas			
Government Sector			
Total Investment			

TABLE-4 EMPLOYMENT: Growth Rate(%)/Values

	Reference Scenario Plan Average	Policy Altered Scenario Plan Average	Difference
PRODUCTION SECTOR			
-Agriculture			
-Mining			
-Pet. Refining			
-Petrochemicals			
-Manufacturing			
-Elec. And Water			
-Construction			
SERVICES SECTOR			
-Trade			
-Transport			
-Real Estate			
-Finance			
-Community Services			
Oil And Gas			
GOVERNMENT			
Kuwaiti			
Non-Kuwaiti			
PRIVATE SECTOR			
Kuwaiti			
Non-Kuwaiti			
TOTAL EMPLOYMENT			
Kuwaiti			
Non-Kuwaiti			

TABLE-5 Expenditure on GDP(Constant/Current Prices)

Growth Rate(%)/Values

	Reference Scenario Plan Average	Policy Altered Scenario Plan Average	Difference
Total Consumption			
-Private Consumption			
-Government Consumption			
Total Investment			
-Private			
-Government			
-Oil and Gas			
-Change in Stocks			
Final Domestic Demand			
Trade Balance			
Exports			
- Oil and Gas			
-Petroleum Refining			
- Petrochemicals			
- Tourism			
- Other Exports			
Imports			
TOTAL GDP			

**TABLE-6 Government Budget
Growth Rate(%)/Values**

	Reference Scenario Plan Average	Policy Altered Scenario Plan Average	Difference
Total Government Revenues			
-Oil Revenues			
-Non-Oil Revenues			
Total Government Expenditures			
-Gov. Exp. Chapter-1			
-Gov. Exp. Chapter-2			
-Gov. Exp. Chapter-3			
-Gov. Exp. Chapter-41			
Government Budget Surplus(Deficit)			
Total Government Debt			
Government Debt Services			

**TABLE-7 Current Account
Growth Rate(%)/Values**

	Reference Scenario Plan Average	Policy Altered Scenario Plan Average	Difference
Total Exports			
-Oil and Gas			
-Petroleum Refining			
-Petrochemicals			
-Other Exports			
-Non-resident Consumption			
Total Imports			
Trade Balance			
Net Private Transfers			
Current Account Balance			
Net Foreign Assets			

TABLE-8 Some Policy Indicators

	Reference Scenario Plan Average	Policy Altered Scenario Plan Average	Difference
Current Account(% of GDP)			
Trade Account(% of GDP)			
Gov. Budget Surplus/Deficit(% of GDP)			
Private Consumption(% of GDP)			
Private Production(% of GDP)			
Private Investment(% of GDP)			
Imports (% of Total Expenditures)			
NON-OIL Revenues (% Total REV.)			
Kuwaitization(% of Kuwaiti)			
Private Emp.(% of total)			
Kuwaiti Unemp. Rate			
Non-Oil Exports(%of total)			